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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/730,967	12/09/2003	John Harvie Chaffin III	46872-292128	3674
7590 09/07/2005		EXAMINER		
Everman Law Firm, PA 6000 Fairview Road			TURNER, ARCHENE A	
Suite 1200	Koau		ART UNIT	PAPER NUMBER
Charlotte, NC 28210			1775	

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/730,967	CHAFFIN, JOHN	HARVIE		
Office Action Summary	Examiner	Art Unit			
	Archene Turner	1775			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	th the correspondence ac	ddress		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 136(a). In no event, however, may a re will apply and will expire SIX (6) MONT e, cause the application to become AB/	CATION.  The ply be timely filed  THS from the mailing date of this of the control of the contro			
Status					
1)⊠ Responsive to communication(s) filed on 7/18	3/05.				
	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.	•		
Disposition of Claims					
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdra	wn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-7</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine	er.				
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to b	by the Examiner.			
Applicant may not request that any objection to the	-,,	` '	•		
Replacement drawing sheet(s) including the correct		• •	• •		
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form P	TO-152.		
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreigr a) All b) Some * c) None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).			
1. Certified copies of the priority documen	ts have been received.				
2. Certified copies of the priority document	ts have been received in A	pplication No			
3. Copies of the certified copies of the price	<del>-</del>	received in this National	l Stage		
application from the International Burea					
* See the attached detailed Office action for a list	of the certified copies not i	received.			
Attachment(s)					
1) Notice of References Cited (PTO-892)		ummary (PTO-413)			
2)	Paper No(s	)/Mail Date formal Patent Application (PT	O-152)		
Paper No(s)/Mail Date <u>12/03</u> .	6) Other:		- · <del>-</del> -/		

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1. Applicant's election of Group I in the reply filed on 7/18/05 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-7 rejected under 35 U.S.C. 103(a) as being unpatentable over Gruen et al (5,989,511 or 5,227,760).

Gruen et al discloses the claimed nano-crystalline diamond having the claimed thickness and the produced by the claimed method. While Gruen et al does not explicitly disclose the exclusion of graphite, Gruen et al says that the diamond films are essentially sp3 bonding which infers that no graphite is present. The claimed stress and absorption peaks are considered inherent.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Archene Turner whose new telephone number is (571) 272-1545. The examiner can normally be reached on Monday through Wednesday, and Friday from 10:30 am. to 6:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Please remember to include on the fax, the art unit 1775, serial number and Examiner's name.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. A. Turner
Primary Examiner
Group 1700

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